本周工作

1. 本周完成了 MUBE 系统的 User study.

任务设计如下:

T1 “Find the category with the highest saliency from 9:00 a.m. to 10:00 a.m in September 9th.”

T2-T4 are in the same case described in example 2.2.

T2 “Find the category with the biggest sales amount.”

T3 “Find the transaction with the biggest amount in KnotLine.”

T4 “What do you think is the reason for the large amount of trans-action in the note selected in T3?”

T5-T7 was under same situation we specified.

T5 “Find the knotline with highest frequency.”

T6 “Which is not the interaction pattern reflected by the knotlines? (a)Single transaction with large amount and small price. (b) Continuous transactions with low frequency. (c)Continuous transactions with high frequency and small price. (d)I don’t know.”

T7 “Which is the seller history information of the note in T7? (a)Transact Frequently. (b)Rarely Transact. (c)Frequent trans-action suddenly occurred in a timepoint.”

T8-T11 is in the same case described in example 2.1.

T8 “Find the unfilled notes in the view, what is the seller and buyer city of these notes?”

T9 “What is the seller history information of the note in T8? (a)Continuous transact Frequently. (b)Rarely Transact. (c)Frequent transaction suddenly occurred in a time point.”

T10“What is the user transaction behavior reflected in T7? (a)Single transaction with large amount. (b)Frequent transactions with low prices. (c)Frequent Transactions with abnormal buyer cities.”

T11“What do you think is the reason of user behavior in T9?”

问卷设计如下

Q1Is it easy or hard to learn the Time-of-Saliency map?

Q2Is it efficient or not to explore data of high saliency in Time-of-Saliency?

Q3Is it easy or hard to interpret the visual encoding of a single note?

Q4Is it easy or hard to interpret the visual encoding and layout of knotlines?

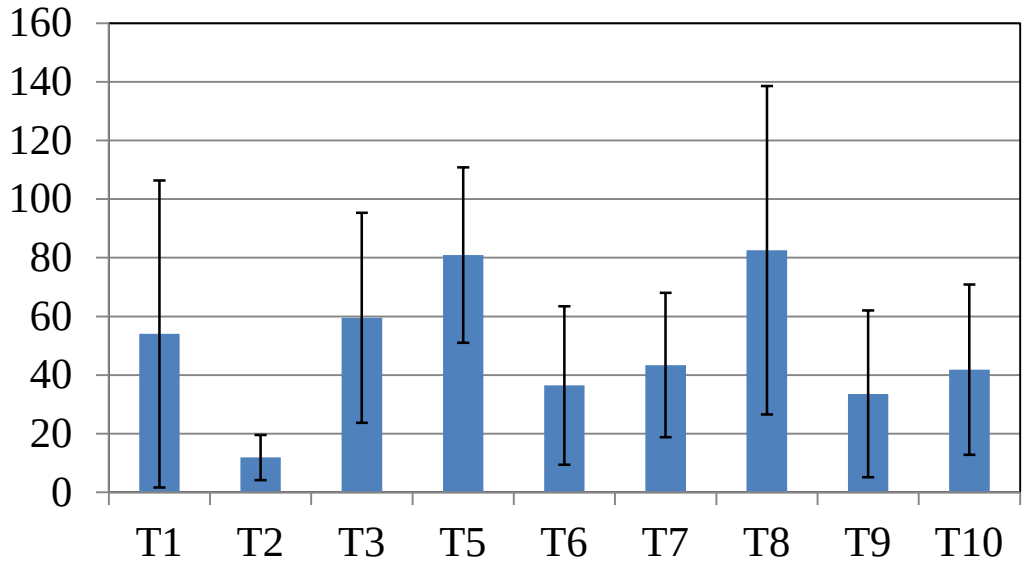
Q5Is it efficient or not to visualize the user interaction pattern with knotlines?

Q6is it efficient or not to analyse the multi user behavior with MUBE?

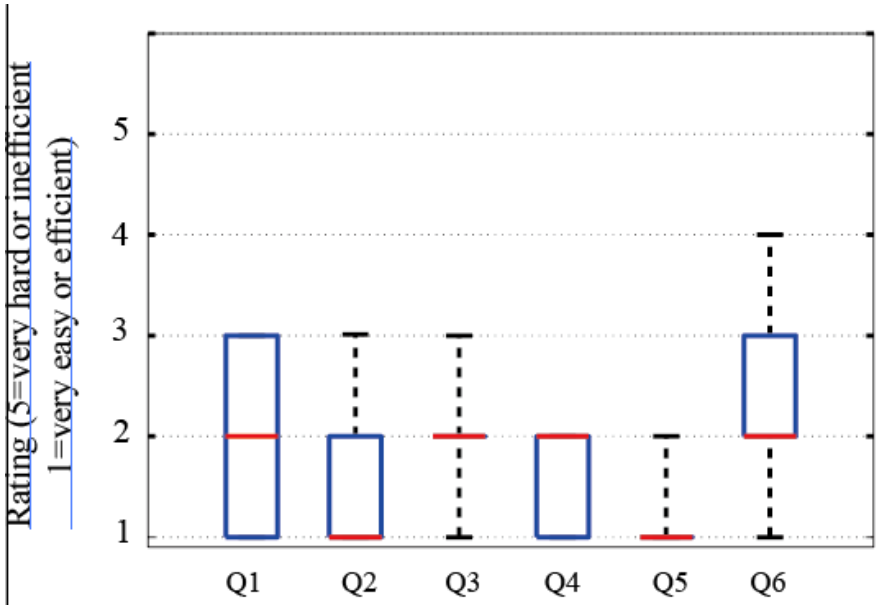
选取 10 人做 user study，其中认为对系统较熟的两人为分析师，其他事普通用户

正确率较高为 85/90。

T3，T5，T8 的时间较大，因为这三个任务均是要求用户在视图中搜寻相关模式，可能比较耗时:



评分也基本较高:



目前正在文章中补充 User Study 的部分。

下周工作

1. 下周工作是完成文章的修改。
2. 有时间再整理浙一的项目。